DrayTek

# Vigor2925 Series

## Dual-WAN Security Router

# Quick Start Guide

V4.1

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# Quick Start Guide

**Version:4.1**

**Firmware Version: V3.8.2.1**

**(For future update, please visit DrayTek web site)**

**Date: July 12, 2016**

## Intellectual Property Rights (IPR) Information


| | |
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## Safety Instructions and Approval

| | |
|---|---|
| **Safety Instructions** | ● Read the installation guide thoroughly before you set up the router.<br>● The router is a complicated electronic unit that may be repaired only be authorized and qualified personnel. Do not try to open or repair the router yourself.<br>● Do not place the router in a damp or humid place, e.g. a bathroom.<br>● Do not stack the routers.<br>● The router should be used in a sheltered area, within a temperature range of 0 to +45 Celsius.<br>● Do not expose the router to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.<br>● Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards.<br>● Keep the package out of reach of children.<br>● When you want to dispose of the router, please follow local regulations on conservation of the environment. |
| **Warranty** | We warrant to the original end user (purchaser) that the router will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary tore-store the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes. |

## European Community Declarations

Manufacturer: DrayTek Corp.
Address: No. 26, Fu Shing Road, HuKou Township, HsinChu Industrial Park, Hsin-Chu County, Taiwan 303
Product: Vigor2925 Series

DrayTek Corp. declares that Vigor2925 Series of routers are in compliance with the following essential requirements and other relevant provisions of R&TTE 1999/5/EC, ErP 2009/125/EC and RoHS 2011/65/EU.

The product conforms to the requirements of Electro-Magnetic Compatibility (EMC) Directive 2004/108/EC by complying with the requirements set forth in EN55022/Class B and EN55024/Class B.

The product conforms to the requirements of Low Voltage (LVD) Directive 2006/95/EC by complying with the requirements set forth in EN60950-1.

This product is designed for the LTE, POTS and 2.4GHz/5GHz WLAN network throughout the EC region.

## Regulatory Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device may accept any interference received, including interference that may cause undesired operation.

More update, please visit www.draytek.com.

## LTE network interface module

Available bands for the LTE network interface module #1 supported by Vigor2925 are listed in the following table:

| | LTE bands |
|---|---|
| Module #1 | LTE bands: 3, 7, 8 and 20<br>800MHz (band 20), 900MHz (band 8), 1800MHz (band 3) and 2600 MHz (band7) |

Module #1 can be seen on product label.

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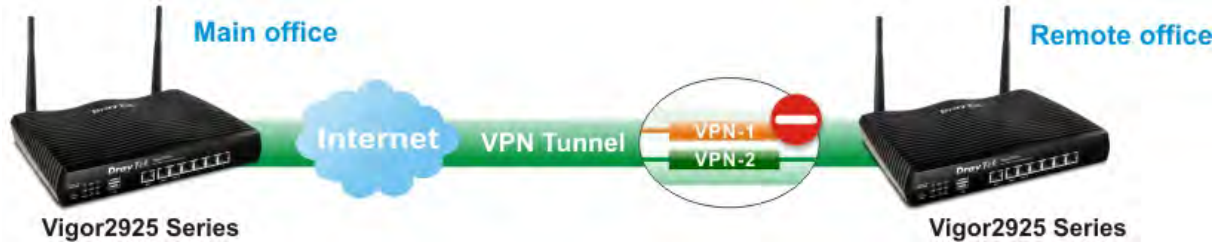
# 1. Introduction

Vigor2925 series is a broadband router which integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

By adopting hardware-based VPN platform and hardware encryption of AES/DES/3DES, and hardware key hash of SHA-1/MD5, the router increases the performance of VPN greatly and offers several protocols (such as IPSec/PPTP/L2TP) with up to 50 VPN tunnels.

The object-based design used in SPI (Stateful Packet Inspection) firewall allows users to set firewall policy with ease. CSM (Content Security Management) provides users control and management in IM (Instant Messenger) and P2P (Peer to Peer) more efficiency than before. In addition, DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside.

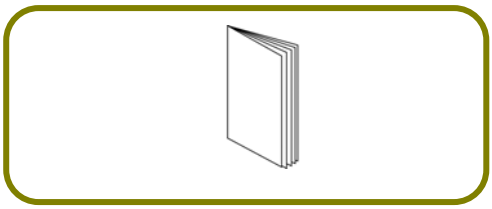
Vigor2925 series supports USB interface for connecting USB printer to share printing function, 3G/4G USB modem for network connection, or connectivity for network FTP service.



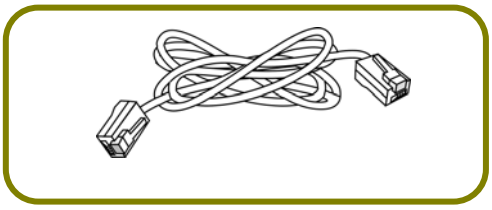
# 2. Package Content

Take a look at the package content. If there is anything missed or damaged, please contact DrayTek or dealer immediately.

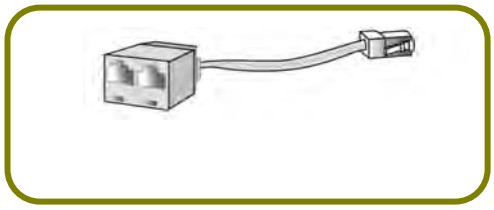
**Vigor Router**



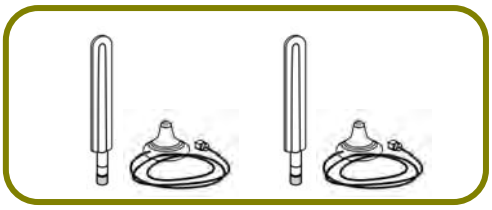
**Quick Start Guide**



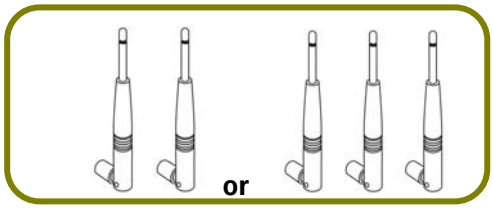
**RJ-45 Cat-5 Ethernet Cable**



**Phone Adapter (“V” models)**

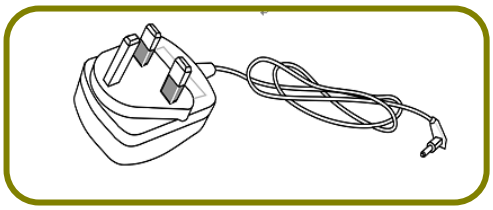


**Antenna + Socket (“L” models)**

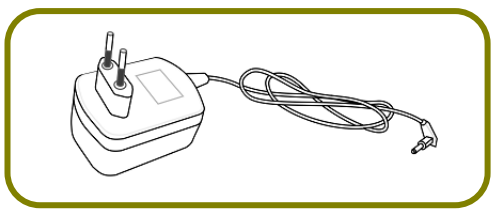



**Antenna x 2 (for “n” model)**
**Antenna x 3 (for “n-plus”, “ac” model)**

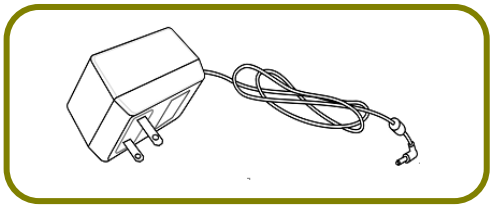
The type of the power adapter depends on the country that the router will be installed. * The maximum power consumption is *24 Watt*.



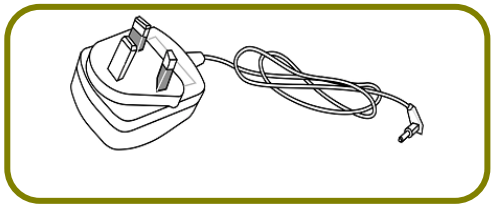
**UK-type Power Adapter**



**EU-type Power Adapter**



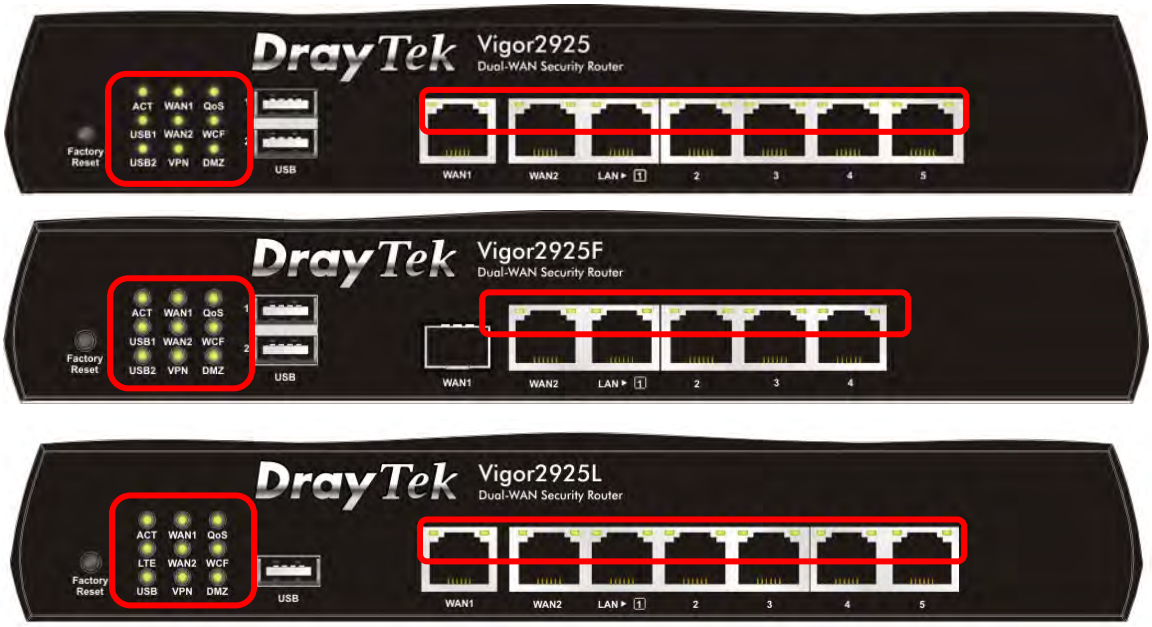
**USA/Taiwan-type Power Adapter**



**AU/NZ-type Power Adapter**

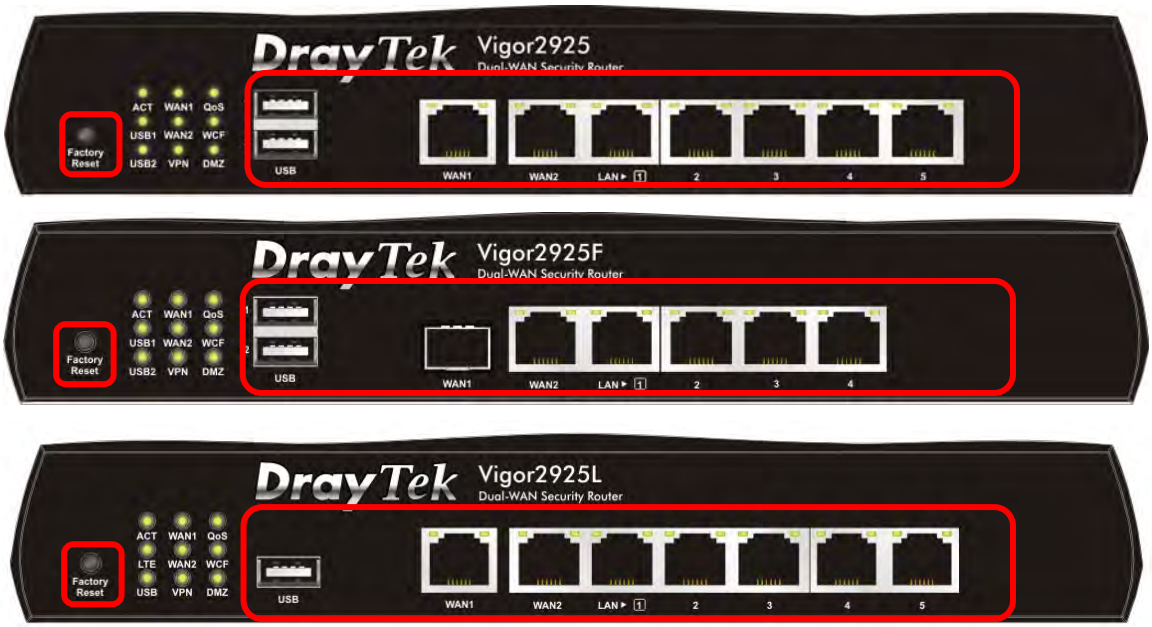
# 3. Panel Explanation

## 3.1 Vigor2925 / Vigor2925F / Vigor2925L




| LED | Status | Explanation |
|---|---|---|
| ACT (Activity) | Blinking | The router is powered on and running normally. |
| | Off | The router is powered off. |
| WAN1~ WAN2 | On | Internet connection is ready. |
| | Off | Internet connection is not ready. |
| | Blinking | The data is transmitting. |
| QoS | On | The QoS function is active. |
| USB1~USB2/ USB | On | USB device is connected and ready for use. |
| | Blinking | The data is transmitting. |
| LTE | On | SIM card is connected and running normally. |
| | Off | LTE device is not detected or encounters troubles (e.g., No SIM, SIM PIN error, SIM deactivated) |
| | Blinking | Quickly: The data is transmitting.<br>Slowly: LTE device is in dialing up procedure. |
| WCF | On | The Web Content Filter is active. (It is enabled from **Firewall >> General Setup**). |
| VPN | On | The VPN tunnel is active. |
| | Off | VPN service is disabled. |
| | Blinking | Traffic is passing through VPN tunnel. |
| DMZ | On | The DMZ function is enabled. |
| | Off | The DMZ function is disabled. |
| | Blinking | The data is transmitting. |
| *LED on Connector* | | |
| WAN1~WAN2 | Left LED (Green) | On — The port is connected. |
| | | Off — The port is disconnected. |
| | | Blinking — The data is transmitting. |

| | | | |
|---|---|---|---|
| | Right LED (Green) | On | The port is connected with 1000Mbps. |
| | | Off | The port is connected with 10/100Mbps. |
| LAN1~LAN5 | Left LED (Green) | On | The port is connected. |
| | | Off | The port is disconnected. |
| | | Blinking | The data is transmitting. |
| | Right LED (Green) | On | The port is connected with 1000Mbps. |
| | | Off | The port is connected with 10/100Mbps. |



Switch on Rear Side

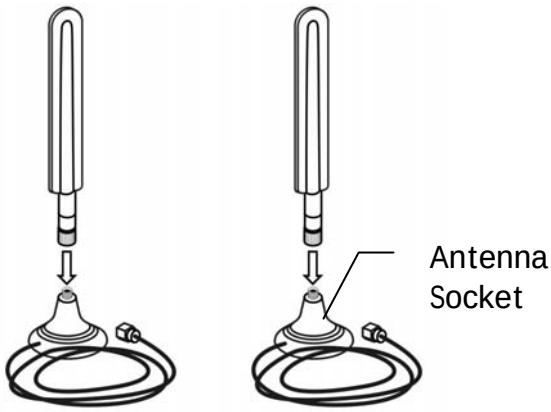
(For Vigor2925L only)

| Interface | Description |
|---|---|
| Factory Reset | Restore the default settings.<br>Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration. |
| USB1~USB2 | Connector for a USB device (for 3G/4G USB Modem or printer or Environmental Thermometer). |
| WAN1<br>(for Vigor2925F) | Fiber connection (100Mbps) for accessing the Internet.<br> |
| WAN1~WAN2 | Connecter for local network devices or modem for accessing |

| | |
|---|---|
| | Internet. |
| LAN1~LAN5 | Connecters for local network devices. |
| PWR | Connector for a power cord. |
| ON/OFF | Power Switch. |
| SIM Card Slot | Connector for a SIM card. |

## Notifications for Antenna Installation (for Viogr2925L)

Both magnetic antennas must be installed on the antenna socket before connecting to Vigor router.

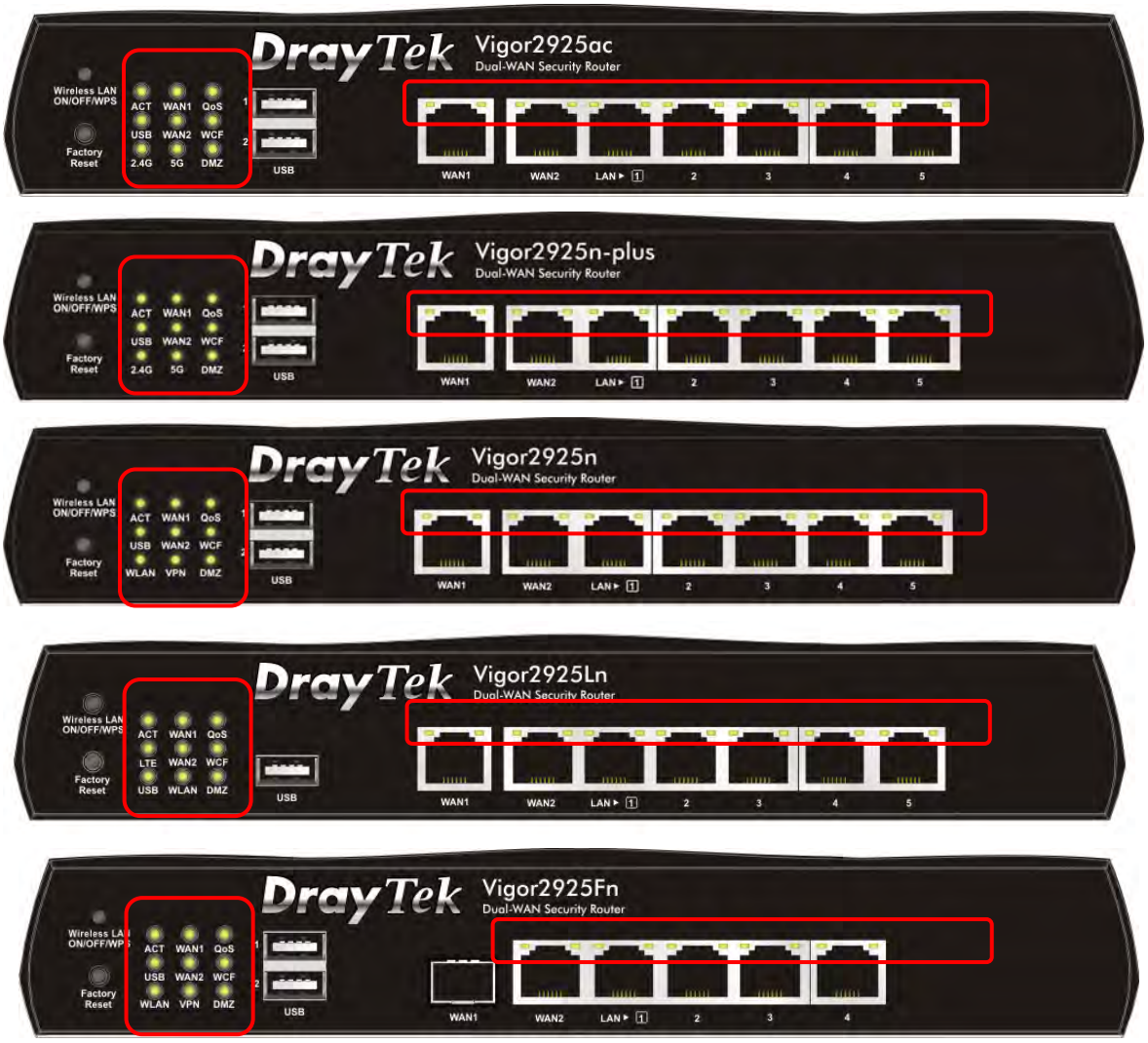



There are two mounting holes for installing antennas with sockets on Vigor router. Please install them as shown below.

Note, if only one antenna shall be installed, please use the mounting hole (major signal transmitted hole) near to the SIM card slot.

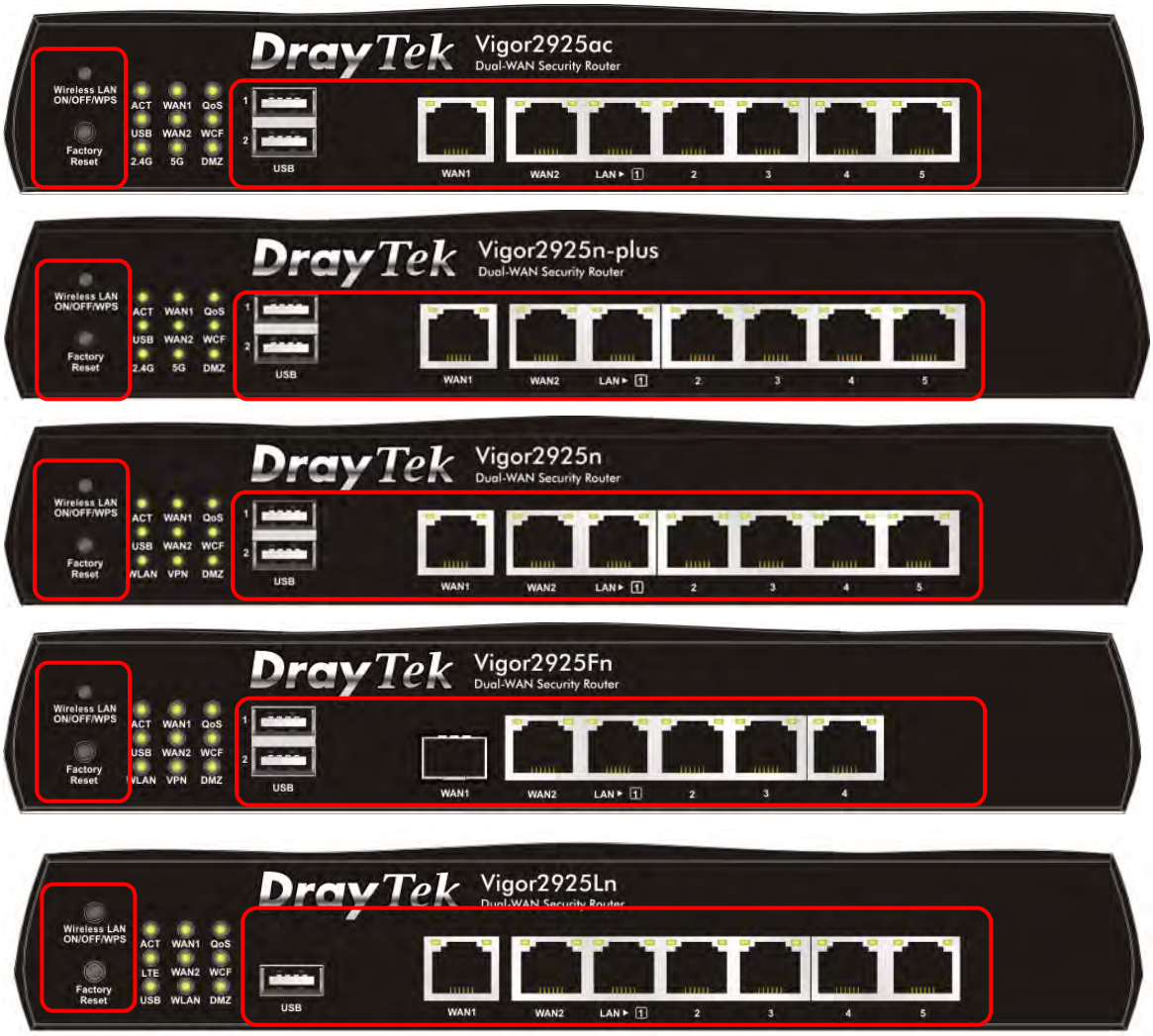
While installing the SIM card into the card slot, note that back plate of the SIM card slot must be removed first and the direction of card notch must be on the left side.

## 3.2 Vigor2925ac / Vigor2925n-plus / Vigor2925n / Vigor2925Fn / Vigor2925Ln




| LED | Status | Explanation |
|---|---|---|
| ACT (Activity) | Blinking | The router is powered on and running normally. |
| | Off | The router is powered off. |
| WAN1~ WAN2 | On | Internet connection is ready. |
| | Off | Internet connection is not ready. |
| | Blinking | The data is transmitting. |
| QoS | On | The QoS function is active. |
| USB | On | USB device is connected and ready for use. |
| | Blinking | The data is transmitting. |
| LTE | On | SIM card is connected and running normally. |
| | Off | LTE device is not detected or encounters troubles (e.g., No SIM, SIM PIN error, SIM deactivated) |
| | Blinking | Quickly: The data is transmitting.<br>Slowly: LTE device is in dialing up procedure. |
| WCF | On | The Web Content Filter is active. (It is enabled from **Firewall >> General Setup**). |

| | | | |
|---|---|---|---|
| 2.4G/5G/ WLAN | On | 2.4G/5G: Wireless access point with bandwidth of 2.4GHz/5GHz is ready.<br>WLAN: Wireless access point is ready. | |
| | Blinking | It will blink slowly while wireless traffic goes through.<br>ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.) | |
| VPN | On | The VPN tunnel is active. | |
| | Off | VPN service is disabled. | |
| | Blinking | Traffic is passing through VPN tunnel. | |
| DMZ | On | The DMZ function is enabled. | |
| | Off | The DMZ function is disabled. | |
| | Blinking | The data is transmitting. | |
| *LED on Connector* | | | |
| WAN1~WAN2 | Left LED (Green) | On | The port is connected. |
| | | Off | The port is disconnected. |
| | | Blinking | The data is transmitting. |
| | Right LED (Green) | On | The port is connected with 1000Mbps. |
| | | Off | The port is connected with 10/100Mbps. |
| LAN1~LAN5 | Left LED (Green) | On | The port is connected. |
| | | Off | The port is disconnected. |
| | | Blinking | The data is transmitting. |
| | Right LED (Green) | On | The port is connected with 1000Mbps. |
| | | Off | The port is connected with 10/100Mbps. |



Switch on Rear Side

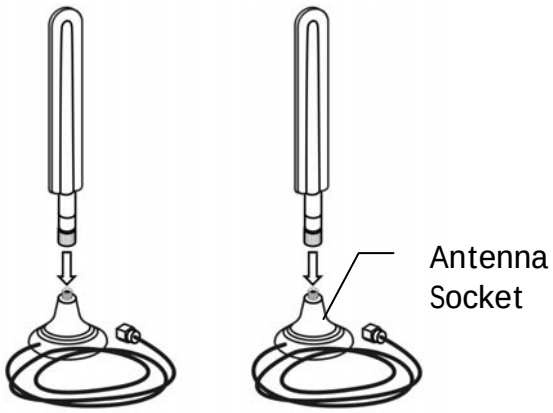
(For Vigor2925Ln only)

| Interface | Description |
|---|---|
| Wireless LAN ON/OFF/WPS | For Vigor2925n/Vigor2925Fn :<br>● Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on.<br>● Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off.<br>For Vigor2925ac/Vigor2925n-plus/Vigor2925Ln :<br>Wireless band will be switched /changed according to the button pressed and released. For example,<br>● 2.4G (On) and 5G (On) – in default.<br>● 2.4G (Off) and 5G (On) – pressed and released the button once.<br>● 2.4G (On) and 5G (Off) – pressed and released the button twice. |

| | |
|---|---|
| | ● 2.4G (Off) and 5G (Off) – pressed and released the button three times.<br>When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS. |
| Factory Reset | Restore the default settings.<br>Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration. |
| USB1~USB2 | Connector for a USB device (for 3G/4G USB Modem or printer or Environmental Thermometer). |
| WAN1 (for Vigor2925Fn) | Fiber connection (100Mbps) for accessing the Internet.<br> |
| WAN1~WAN2 | Connecter for local network devices or modem for accessing Internet. |
| LAN1~LAN5 | Connecters for local network devices. |
| PWR | Connector for a power cord. |
| ON/OFF | Power Switch. |
| SIM Card Slot | Connector for a SIM card. |

## Notifications for Antenna Installation (for Viogr2925Ln)

Both magnetic antennas must be installed on the antenna socket before connecting to Vigor router.

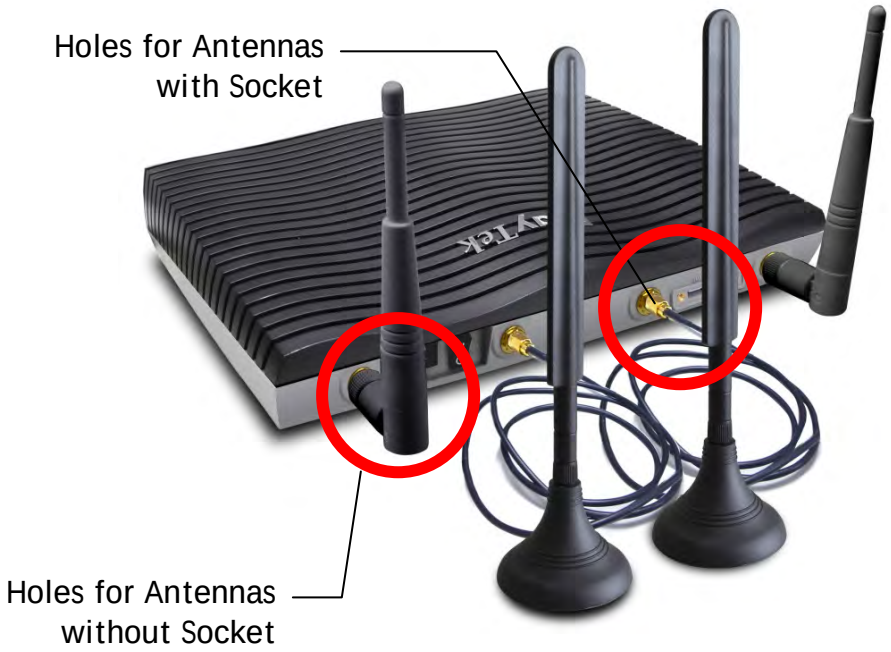


There are two mounting holes for installing antennas with sockets on Vigor router. Please install them as shown below.

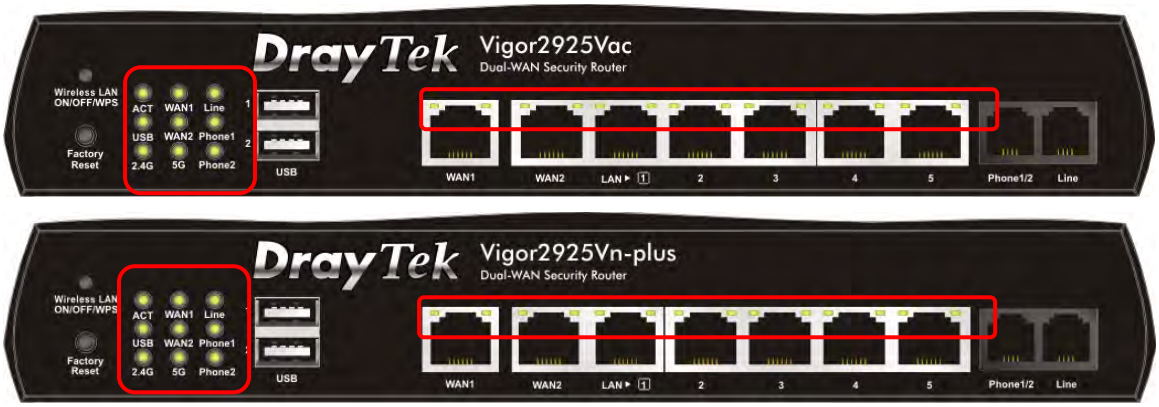
Note, if only one antenna shall be installed, please use the mounting hole (major signal transmitted hole) near to the SIM card slot.

While installing the SIM card into the card slot, note that back plate of the SIM card slot must be removed first and the direction of card notch must be on the left side.

There are two types of antennas provided for **Vigor2925Ln**, which must be installed in different locations carefully and correctly. Wrong installation might cause bad signal of wireless connection. Therefore, pay attention to the installation of antennas by referring to the following illustration.



## 3.3 Vigor2925Vac / Vigor2925Vn-plus




| LED | Status | Explanation |
|---|---|---|
| ACT (Activity) | Blinking | The router is powered on and running normally. |
| | Off | The router is powered off. |
| WAN1~ WAN2 | On | Internet connection is ready. |
| | Off | Internet connection is not ready. |
| | Blinking | The data is transmitting. |
| Line | On | A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off. |
| | Off | There is no PSTN phone call. |
| USB | On | USB device is connected and ready for use. |
| | Blinking | The data is transmitting. |
| Phone1/2 | On | The phone connected to this port is off-hook. |
| | Off | The phone connected to this port is on-hook. |
| | Blinking | A phone call comes. |
| 2.4G/5G | On | Wireless access point with transmission rate of 2.4G is ready. |
| | Blinking | It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.) |

*LED on Connector*

| | | | |
|---|---|---|---|
| WAN1~WAN2 | Left LED | On | The port is connected. |
| | | Off | The port is disconnected. |
| | | Blinking | The data is transmitting. |
| | Right LED | On | The port is connected with 1000Mbps. |
| | | Off | The port is connected with 10/100Mbps |
| LAN1~LAN5 | Left LED | On | The port is connected. |
| | | Off | The port is disconnected. |
| | | Blinking | The data is transmitting. |
| | Right LED | On | The port is connected with 1000Mbps. |
| | | Off | The port is connected with 10/100Mbps |

| Interface | Description |
|---|---|
| Wireless LAN ON/OFF/WPS | Wireless band will be switched /changed according to the button pressed and released. For example,<br>● 2.4G (On) and 5G (On) – in default.<br>● 2.4G (Off) and 5G (On) – pressed and released the button once.<br>● 2.4G (On) and 5G (Off) – pressed and released the button twice.<br>● 2.4G (Off) and 5G (Off) – pressed and released the button three times.<br>When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS. |
| Factory Reset | Restore the default settings.<br>Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration. |
| USB1~USB2 | Connector for a USB device (for 3G/4G USB Modem or printer or Environmental Thermometer). |
| WAN1~WAN2 | Connecter for local network devices or modem for accessing Internet. |
| LAN1~LAN5 | Connecters for local network devices. |
| Phone 1/2 | Connecter for analog phone(s). |
| Line | Connector for PSTN life line. |
| PWR | Connecter for a power adapter. |
| ON/OFF | Power Switch. |

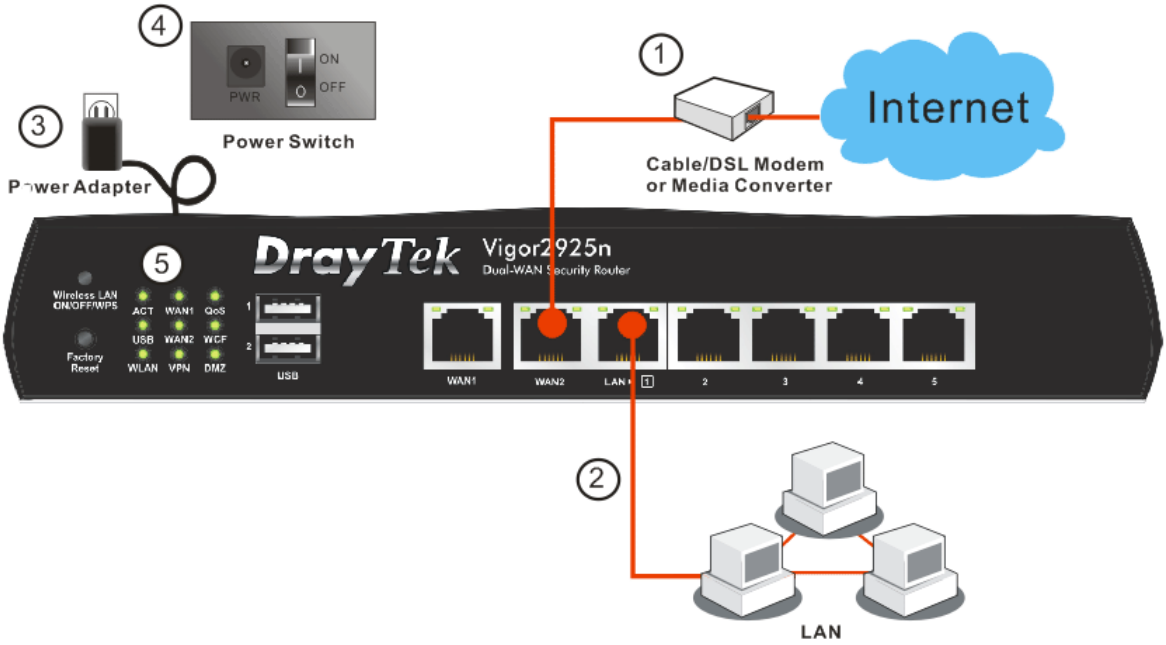
# 4. Hardware Installation

This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

Before starting to configure the router (taking Vigor2925n for example), you have to connect your devices correctly.

1. Connect the cable Modem/DSL Modem/Media Converter to any WAN port of router with Ethernet cable (RJ-45).
2. Connect one end of an Ethernet cable (RJ-45) to one of the **LAN** ports of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer.
3. Connect one end of the power cord to the router's power port on the rear panel, and the other side into a wall outlet.
4. Power on the device by pressing down the power switch on the rear panel.
5. The system starts to initiate. After completing the system test, the **ACT** LED will light up and start blinking.

   (For the detailed information of LED status, please refer to section 3. Panel Explanation)



# 5. Software Configuration

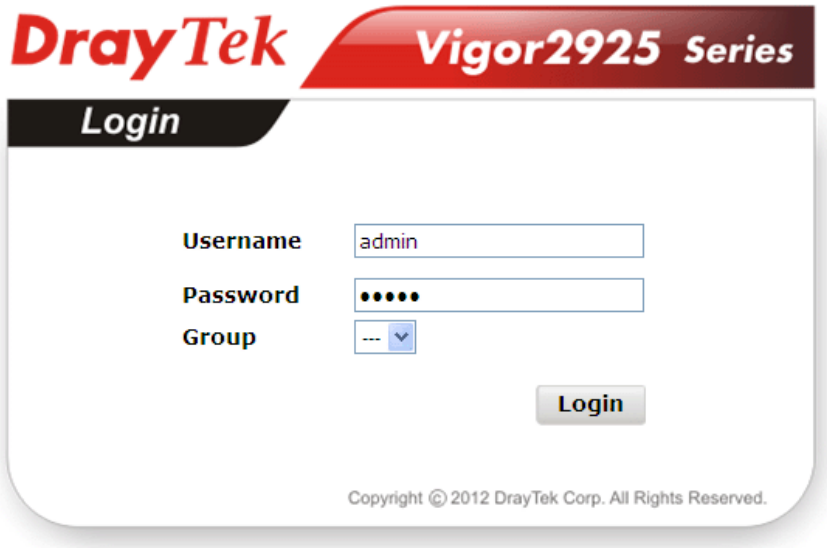
To access Internet, please finish basic configuration after completing the hardware installation.

The **Quick Start Wizard** is designed for you to easily set up your router for Internet access. You can directly access the **Quick Start Wizard** via Web Configurator.

1. Make sure your PC connects to the router correctly.

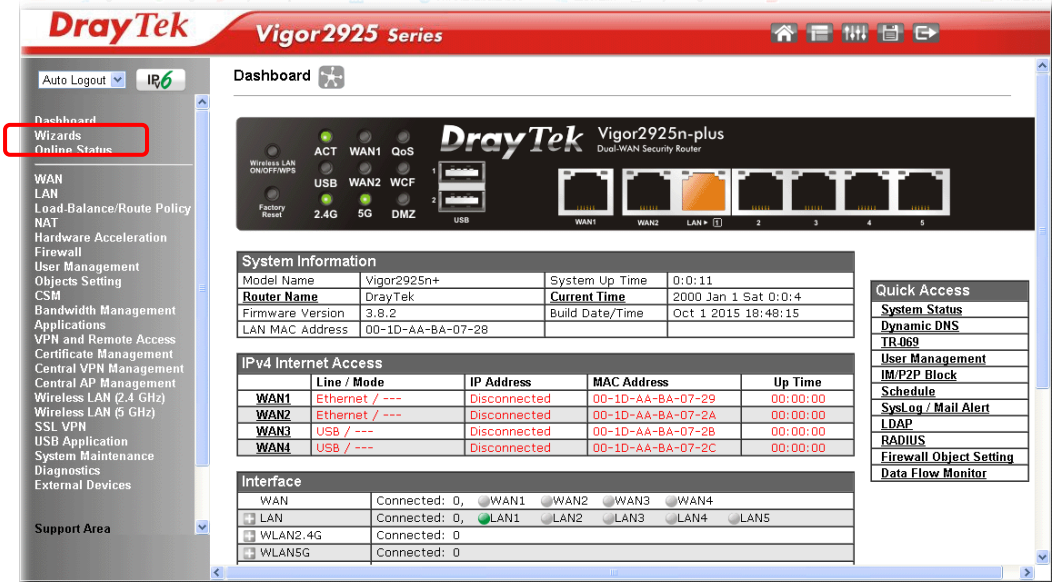
| **Note** | You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of Vigor router 192.168.1.1**. For the detailed information, please refer to the later section - Trouble Shooting of the guide. |
|---|---|

2. Open a web browser on your PC and type **http://192.168.1.1.** A pop-up window will open to ask for username and password. Please type "admin/admin" as the Username/Password and click **Login**.



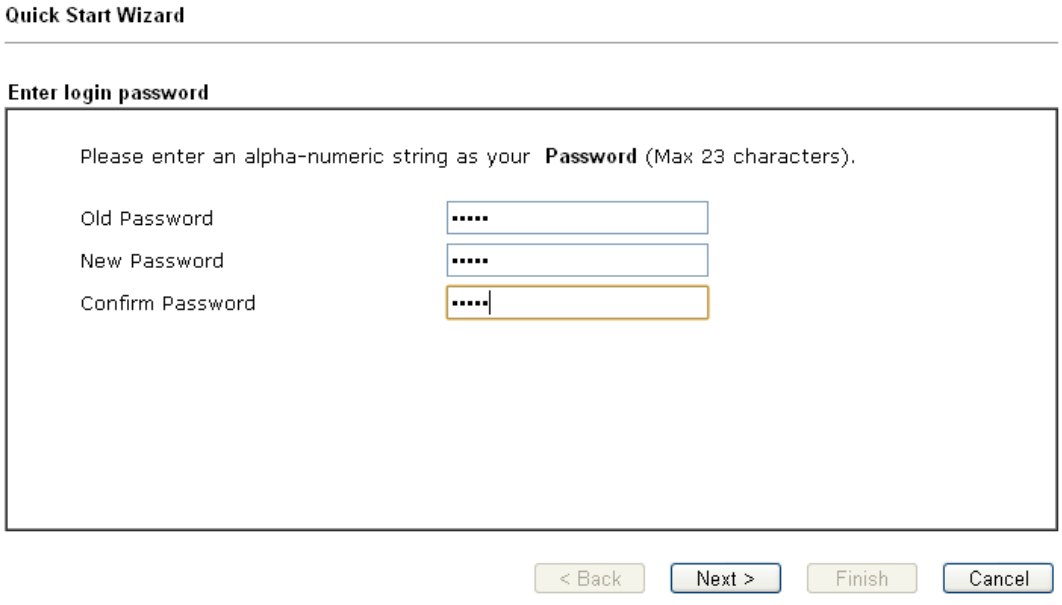

| **Note** | If you fail to access to the web configuration, please go to "Trouble Shooting" for detecting and solving your problem. |
|---|---|

3. Now, the **Main Screen** will pop up. Click **Wizards>>Quick Start Wizard**.

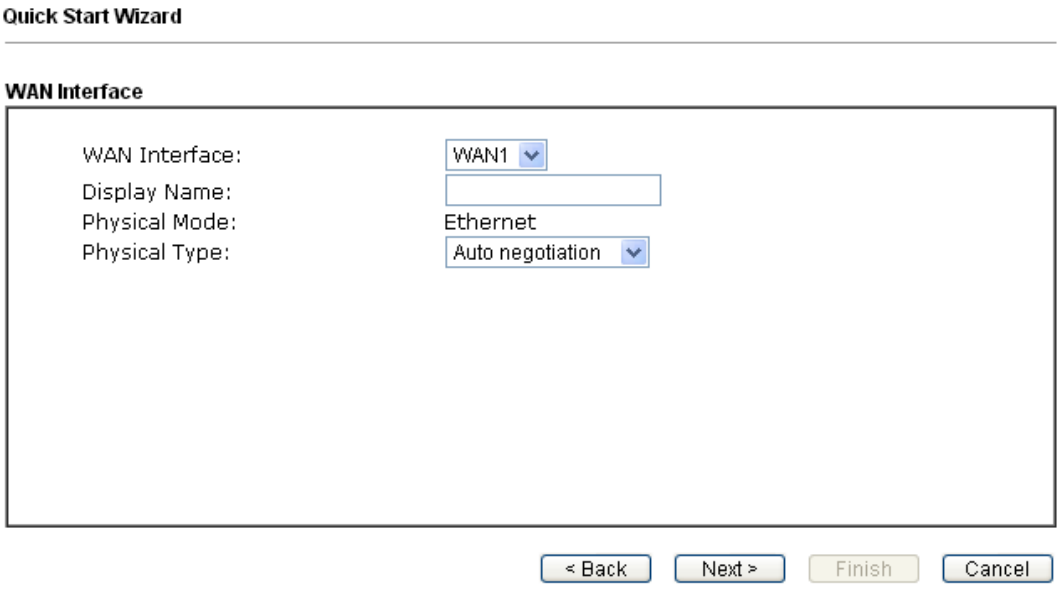



**Note** The home page will change slightly in accordance with the router you have.

4. Enter the login password on the field of **New Password** and retype it on the field of **Confirm Password**. Then click **Next** to continue.



5. On the next page as shown below, please select the WAN interface that you use. If Ethernet interface is used, please choose WAN1/WAN2; if 3G/4G USB modem is used, please choose WAN3/WAN4; if LTE SIM card is used, please choose LTE. Then click **Next** for next step.



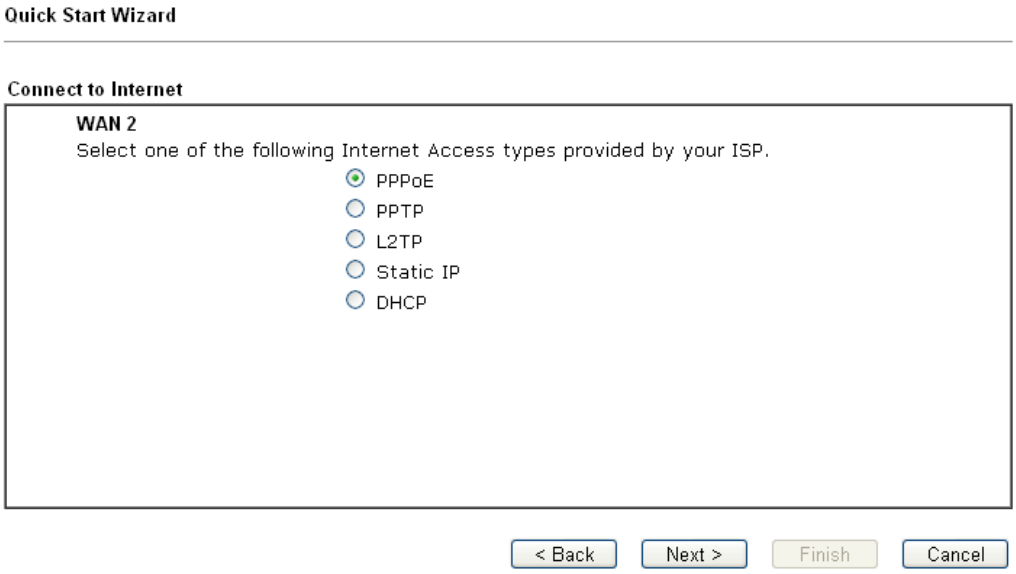

WAN1, WAN2, WAN3/LTE and WAN4 will bring up different configuration page. Refer to the following for detailed information. In which, WAN3 will be treated as USB WAN or LTE WAN according to the USB modem or SIM Card used for accessing Internet.

## 5.1 For WAN1/WAN2 (Ethernet)

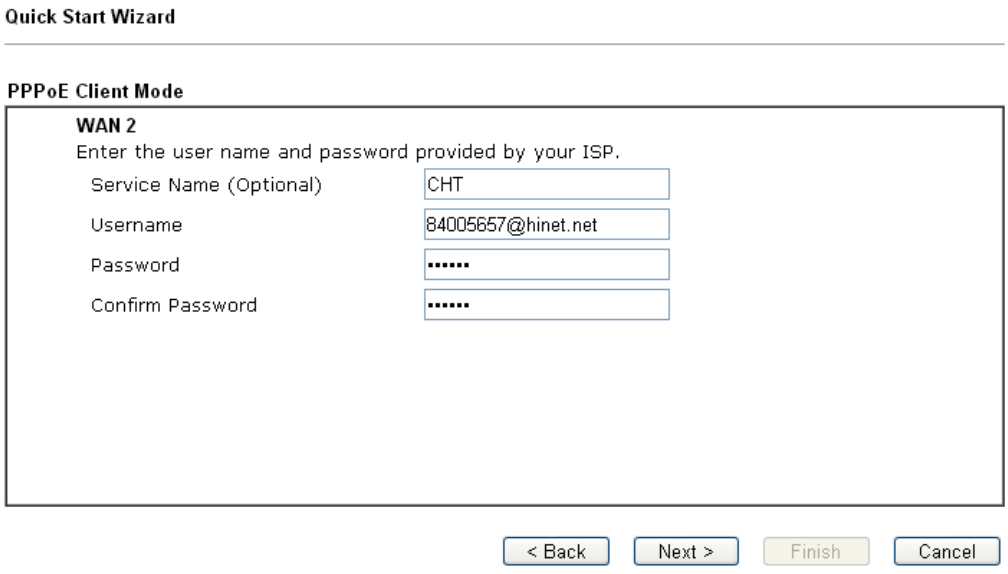
WAN1/WAN2 is dedicated to physical mode in Ethernet. If you choose WAN1/WAN2, please specify physical type. Then, click **Next**. On the next page as shown below, please select the appropriate Internet access type according to the information from your ISP. For example, you should select PPPoE mode if the ISP provides you PPPoE interface.

### PPPoE

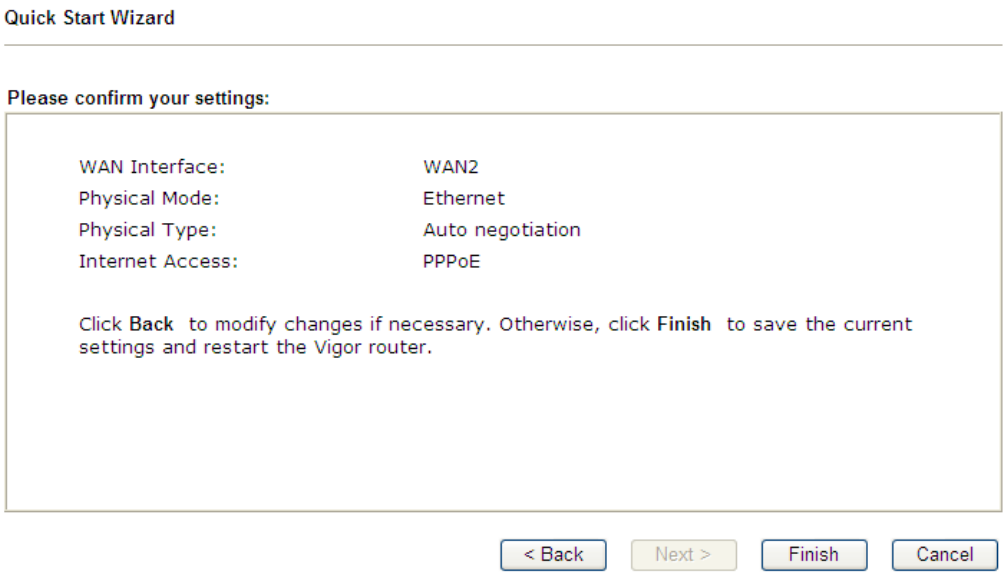
1. Choose **WAN1/WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.



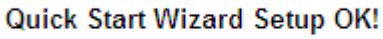

2. Click **PPPoE** as the Internet Access Type. Then click **Next** to continue.



3. Please manually enter the Username/Password provided by your ISP. Click **Next** for viewing summary of such connection.



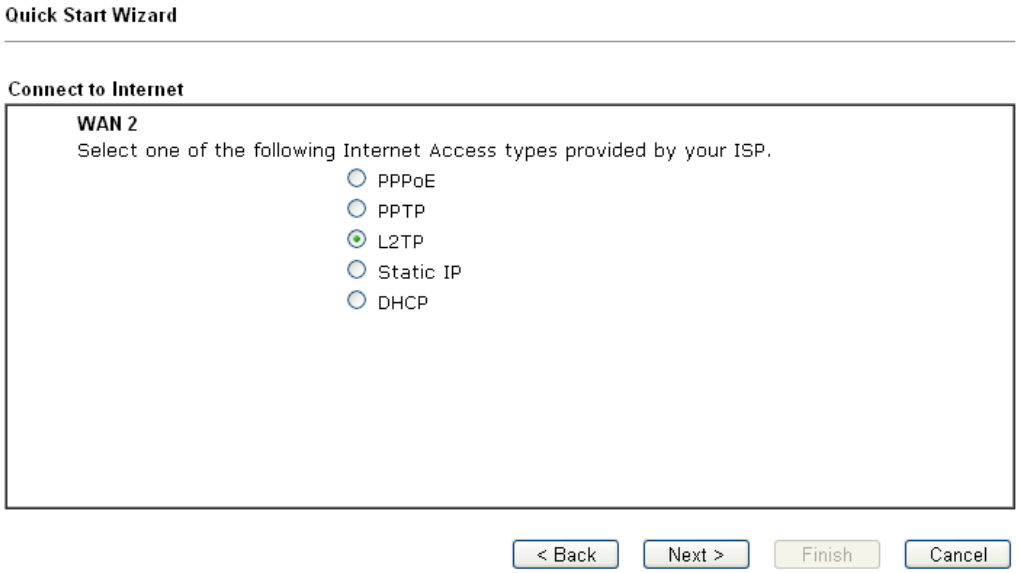

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.



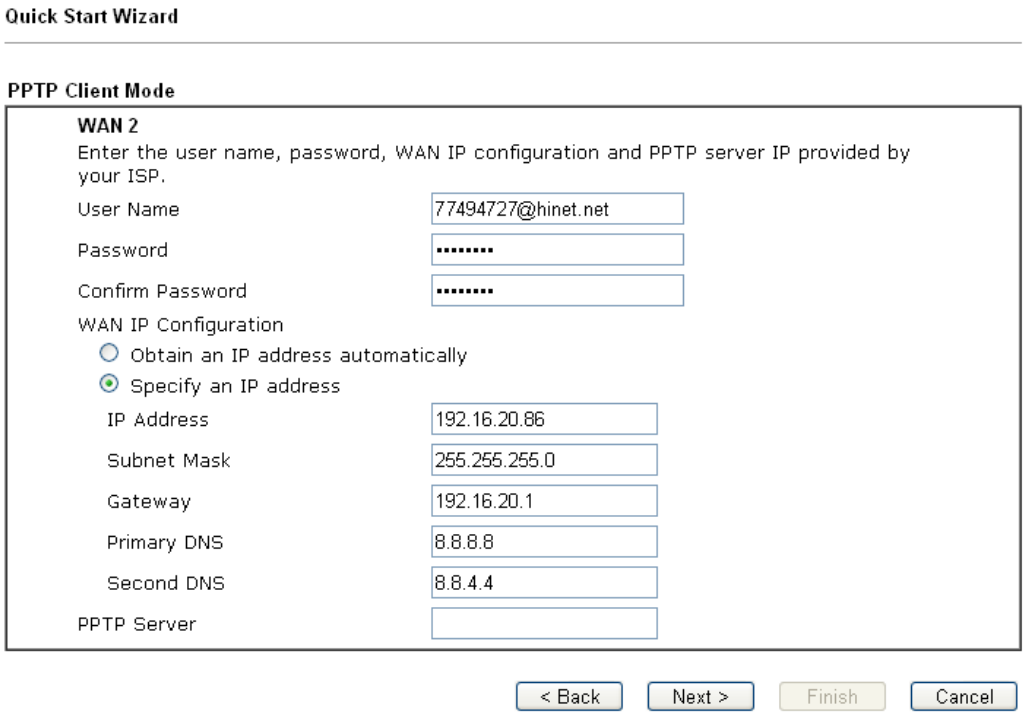

5. Now, you can enjoy surfing on the Internet.

## PPTP/L2TP

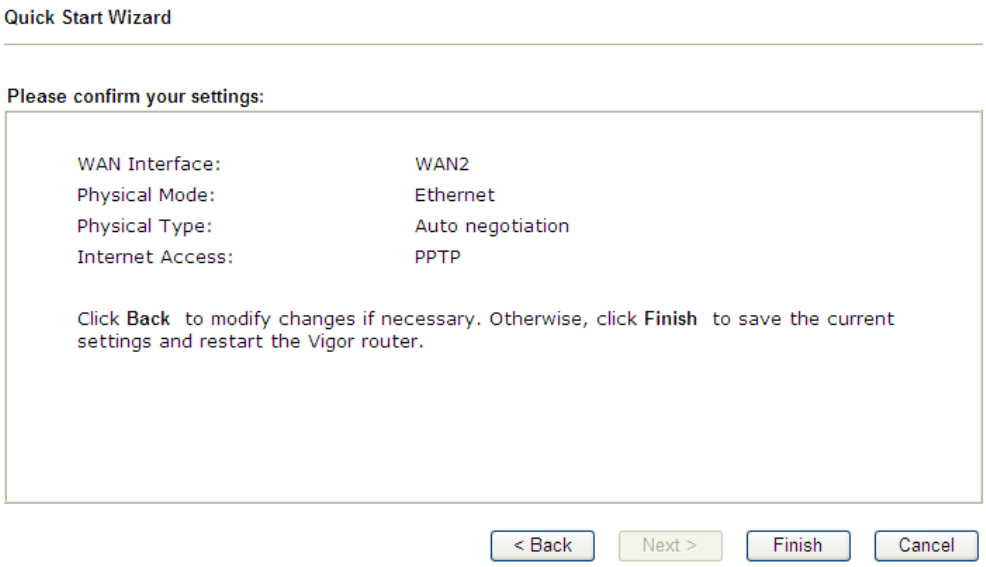
1. Choose **WAN1/WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.



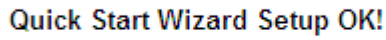

2. Click **PPTP/L2TP** as the Internet Access Type. Then click **Next** to continue.



3. Please type in the IP address/mask/gateway information originally provided by your ISP. Then click **Next** for viewing summary of such connection.



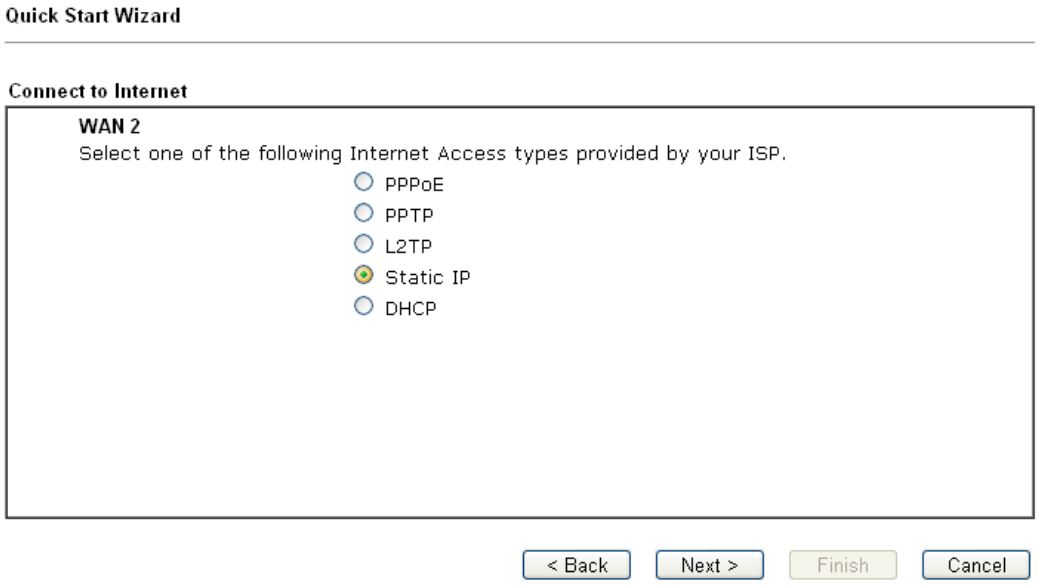

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.



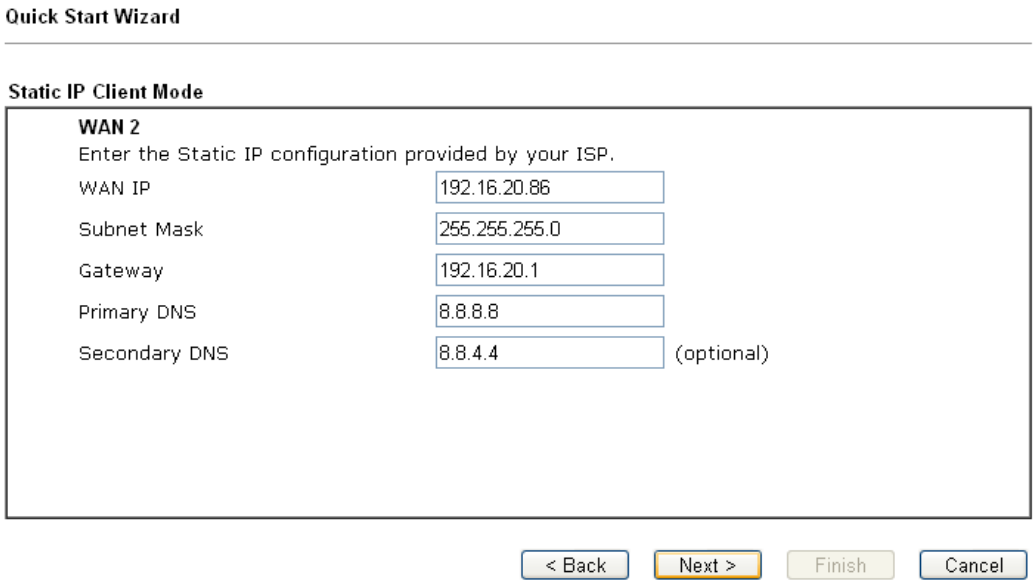

5. Now, you can enjoy surfing on the Internet.

## Static IP

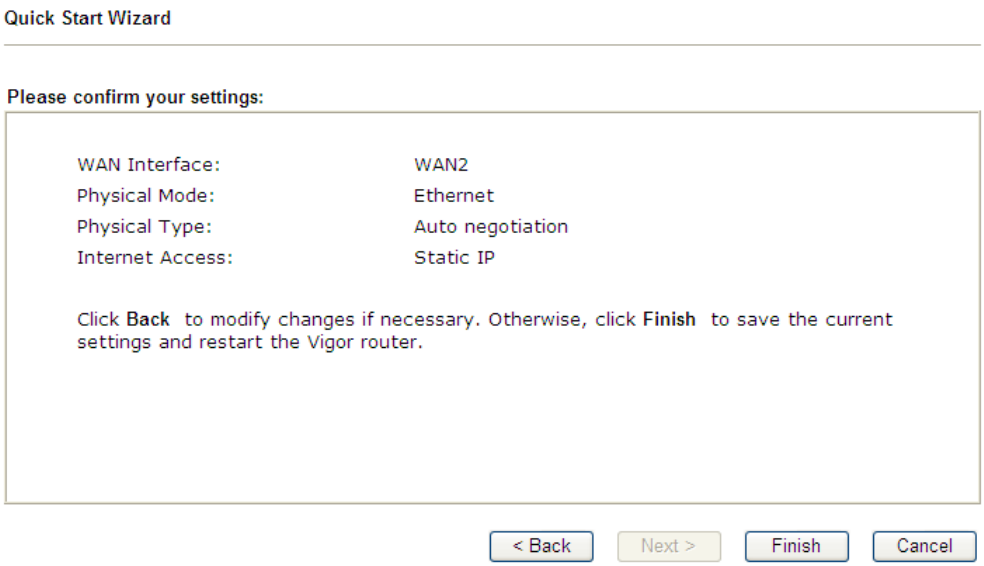
1. Choose **WAN1/WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.



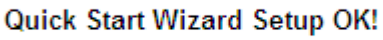

2. Click **Static IP** as the Internet Access type. Simply click **Next** to continue.



3. Please type in the IP address information originally provided by your ISP. Then click **Next** for next step.



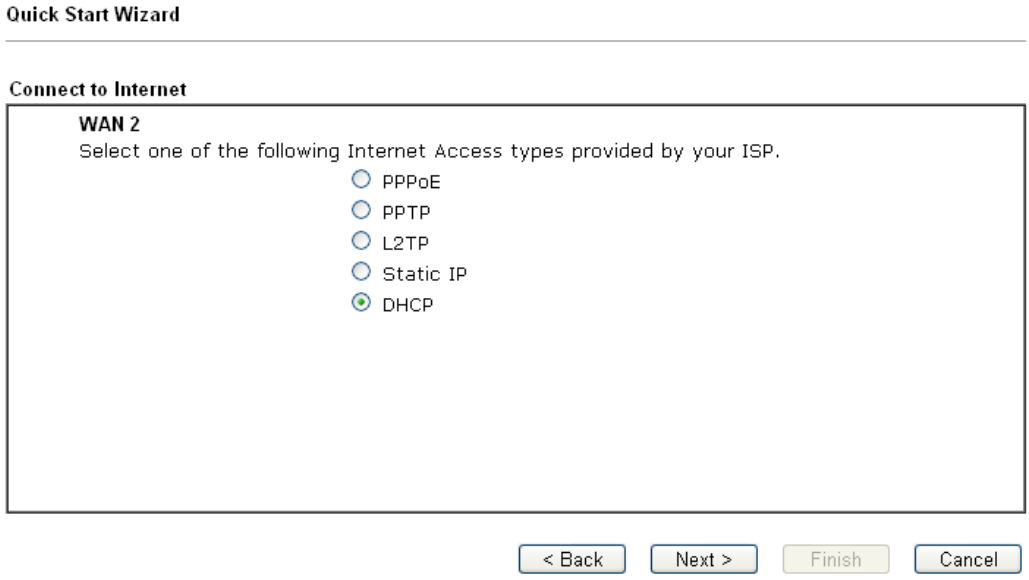

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.



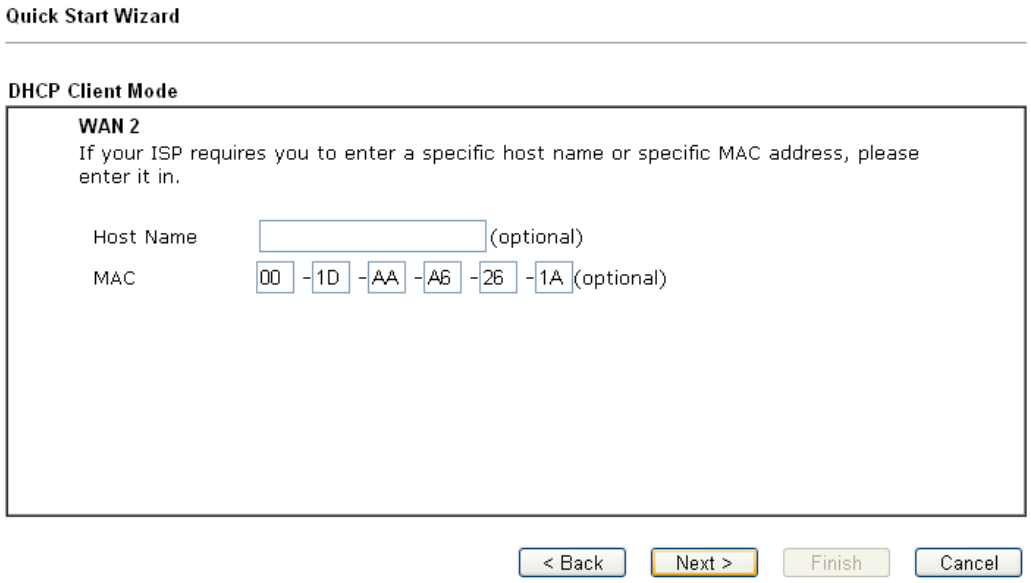

5. Now, you can enjoy surfing on the Internet.

## DHCP

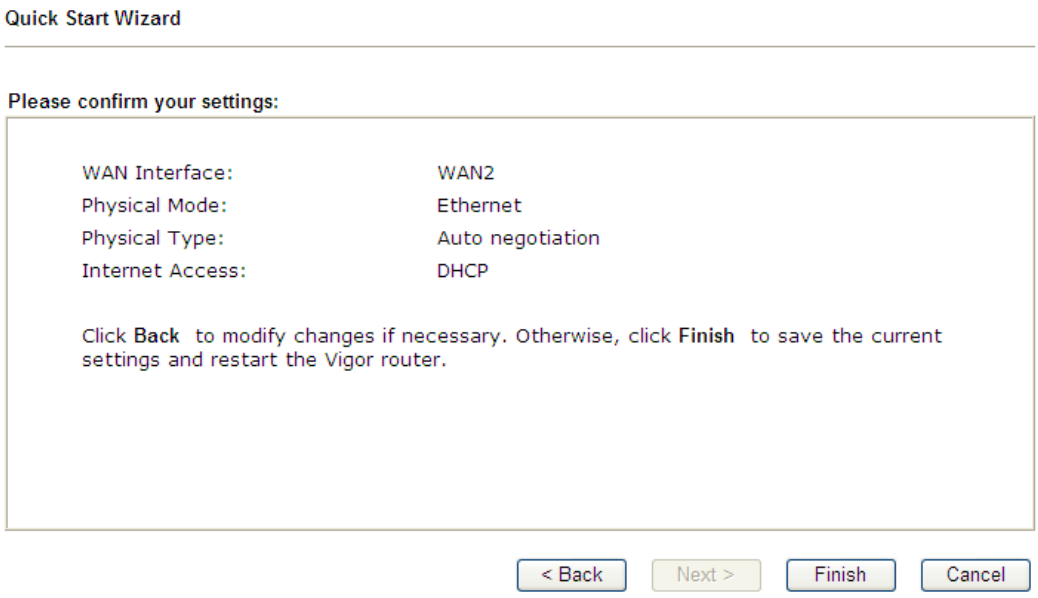
1. Choose **WAN1/WAN2** as WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.



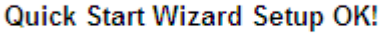

2. Click **DHCP** as the Internet Access type. Simply click **Next** to continue.



3. After finished the settings above, click **Next** for viewing summary of such connection.



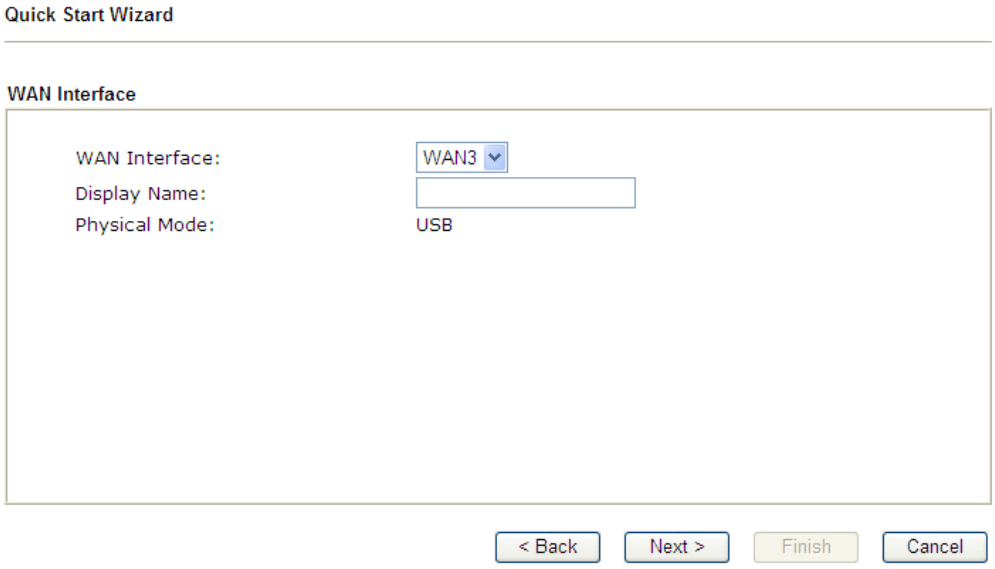

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.



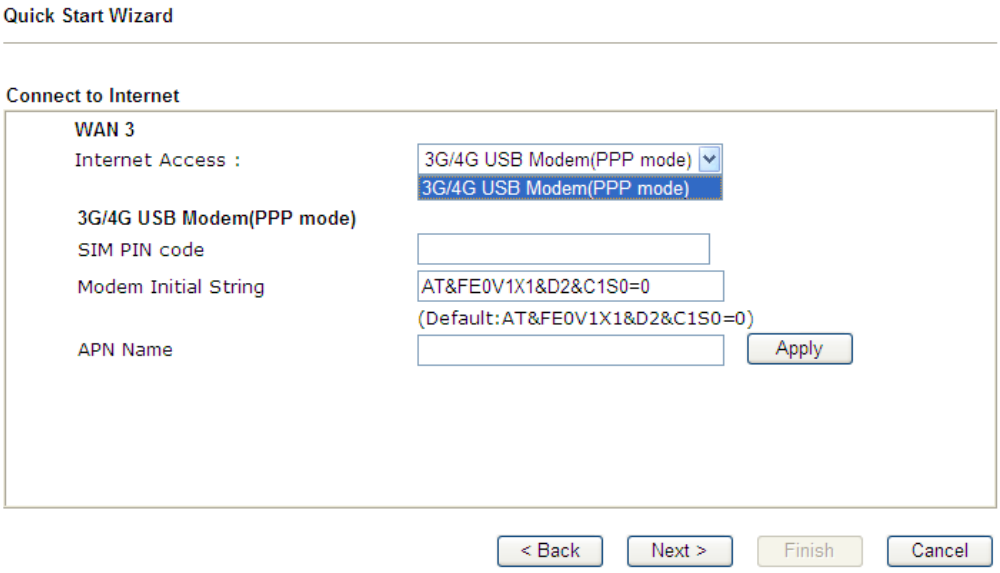

5. Now, you can enjoy surfing on the Internet.

## 5.2 For WAN3/WAN4 (USB)

1. Choose **WAN3/WAN4** as WAN Interface.

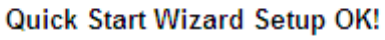



2. Then, click **Next** for getting the following page.



3. Please type in required information originally provided by your ISP. Then, click **Next** for viewing summary of such connection.

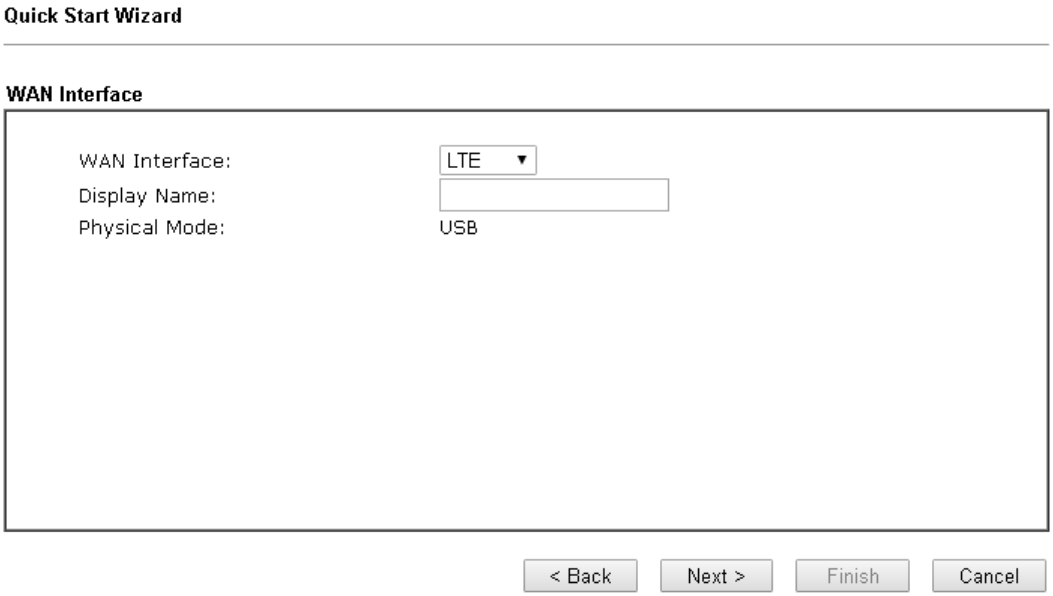
4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.



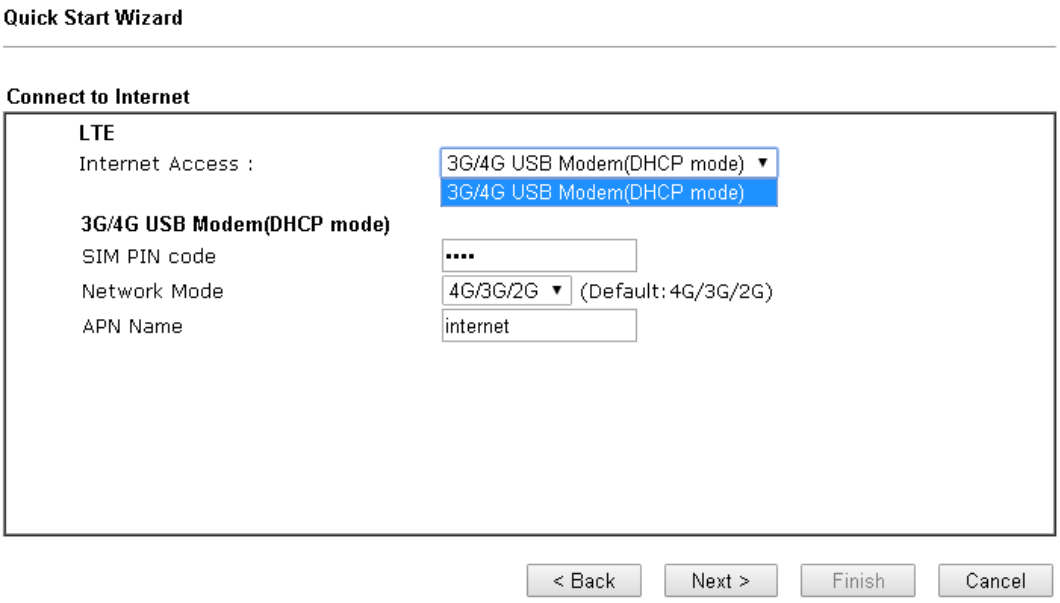

5. Now, you can enjoy surfing on the Internet.

## 5.3 For LTE

1. Choose **LTE** as WAN Interface.

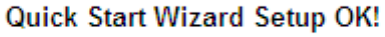



2. Then, click **Next** for getting the following page.



3. Please type in required information originally provided by your ISP. Then, click **Next** for viewing summary of such connection.

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.




5. Now, you can enjoy surfing on the Internet.

# 6. Customer Service

If the router cannot work correctly after trying many efforts, please contact your dealer/DrayTek for further help right away. For any questions, please feel free to send e-mail to support@draytek.com.

## Be a Registered Owner

Web registration is preferred. You can register your Vigor router via http://www.draytek.com.

## Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

http://www.draytek.com